

MEMORANDUM



Date: June 26, 2007

To: Honorable Chairman Bruno A. Barreiro
and Members, Board of County Commissioners

From: George M. Burgess
County Manager

A handwritten signature in black ink, appearing to read "G. Burgess", written over the printed name of George M. Burgess.

Agenda Item No.8(R)3(I)

Subject: Request to Advertise for Design and Construction Management Services for North District
Wastewater Treatment Plant Water Reclamation Facility - Contract No: E07-WASD-04

Recommendation

This Request to Advertise for a consultant selection for Contract No: E07-WASD-04 has been prepared by the Miami-Dade Water and Sewer Department (MDWASD) and is recommended for approval to provide planning, design, permitting and construction management services for the construction of a 6.8 million gallons per day (MGD) Water Reclamation Facility at the MDWASD North District Wastewater Treatment Plant (NDWWTP).

Scope

PROJECT NAME: Design and Construction Management Services for North District Wastewater
Treatment Plant Water Reclamation Facility

PROJECT NO: E07-WASD-04

CONTRACT NO: E07-WASD-04

PROJECT DESCRIPTION: The consultant is to provide planning, design, permitting and construction management services for the construction of a 6.8 MGD Water Reclamation Facility at the MDWASD NDWWTP. This water reclamation facility will use the treated effluent to irrigate the North Miami Stadium, the Biscayne Landings Development adjacent to the NDWWTP, the North Campus of the Florida International University, various locations within the City of North Miami Beach and possibly North Miami.

PROJECT LOCATION: 2575 N.E. 151st Street
North Miami, FL 33160

PRIMARY COMMISSION DISTRICT: District 4 Sally A. Heyman

APPROVAL PATH: Board of County Commissioners

OCI A&E PROJECT NUMBER: E07-WASD-04

USING DEPARTMENT: Miami-Dade Water and Sewer Department

MANAGING DEPARTMENT: Miami-Dade Water and Sewer Department

Fiscal Impact / Funding Source

FUNDING SOURCE: **SOURCE**
WASD Revenue Bonds Sold, Plant Expansion Wastewater Fund and Future
WASD Revenue Bonds

PTP FUNDING: No

GOB FUNDING: No

CAPITAL BUDGET PROJECT:	<u>BUDGET PROJECT / DESCRIPTION</u>	<u>RTA ESTIMATE</u>
	965630-WASTEWATER TREATMENT PLANTS EFFLUENT REUSE Book Page: 314 Funding Year: 2007-2008	<u>\$3,740,000.00</u>

PROJECT TECHNICAL CERTIFICATION REQUIREMENTS:	<u>TYPE</u>	<u>CODE</u>	<u>DESCRIPTION</u>
	Prime	6.03	WATER AND SANITARY SEWER SYSTEMS - WATER AND SANITARY SEWAGE TREATMENT PLANTS
	Prime	11.00	GENERAL STRUCTURAL ENGINEERING
	Prime	17.00	ENGINEERING CONSTRUCTION MANAGEMENT
	Other	9.02	SOILS, FOUNDATIONS AND MATERIALS TESTING - GEOTECHNICAL AND MATERIALS ENGINEERING SERVICES
	Other	12.00	GENERAL MECHANICAL ENGINEERING
	Other	13.00	GENERAL ELECTRICAL ENGINEERING
	Other	15.01	SURVEYING AND MAPPING - LAND SURVEYING
	Other	16.00	GENERAL CIVIL ENGINEERING

**ESTIMATED CONTRACT
PERIOD:** 1460 Consecutive Calendar Days Calendar Days = 4 years: Planning - Design = 1 year;
Permitting - Procurement = 1 year; Construction - Startup = 2
years.

**ESTIMATED CONTINGENCY
PERIOD:** 146 Consecutive
Calendar Days

**IG FEE INCLUDED IN BASE
CONTRACT:** Yes

ART IN PUBLIC PLACES: No

BASE ESTIMATE: \$3,400,000.00

CONTINGENCY ALLOWANCE (SECTION 2- 8.1 MIAMI DADE COUNTY CODE):	TYPE	PERCENT	AMOUNT	COMMENT
	PSA	10%	\$340,000.00	

TOTAL DEDICATED
ALLOWANCE: \$0.00

COST ESTIMATE: \$3,740,000.00

Track Record / Monitor

EXPLANATION:

MINIMUM QUALIFICATIONS No
EXCEED LEGAL
REQUIREMENTS:

REVIEW COMMITTEE: MEETING DATE: 4/11/2007 SIGNOFF DATE: 4/11/2007

RESPONSIBLE WAGES: No

REVIEW COMMITTEE ASSIGNED CONTRACT MEASURES:	MEASURE	GOAL	COMMENT
	CBE	20.00% CBE	
	CWF	0.00% Not Applicable	

MANDATORY CLEARING
HOUSE: No

CONTRACT MANAGER NAME/PHONE/EMAIL:	Howard J Fallon Jr	786-552-8225	HJFAL01@miamidade.gov
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PROJECT MANAGER NAME/PHONE/EMAIL:	Patty David	786-552-8040	pattyd@miamidade.gov
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Background

BACKGROUND:

This water reclamation facility is a requirement of Miami-Dade County's Interim Consumptive Use Authorization and Agreement with the South Florida Water Management District executed in May 2006, under which the County has committed to developing alternative water supplies to meet its increased demands from sources other than the Biscayne Aquifer. Flows from the proposed 6.8 MGD Water Reclamation Facility at MDWASD's NDWWTP have been submitted to the South Florida Water Management District as part of the Alternative Water Supply requirement with a completion schedule in December 2010.

This water reclamation facility will use the treated effluent to irrigate the North Miami Stadium, the Biscayne Landings Development adjacent to the NDWWTP, the North Campus of the Florida International University, various locations within the City of North Miami Beach and possibly North Miami.

BUDGET APPROVAL
FUNDS AVAILABLE:


OSBM DIRECTOR

5-30-07
DATE

95

APPROVED AS TO
LEGAL SUFFICIENCY:


COUNTY ATTORNEY

5-30-07
DATE


ASSISTANT COUNTY
MANAGER

5/31/07
DATE

CLERK DATE

DATE

Request to Advertise
Design and Construction Management Services for the
North District Wastewater Treatment Plant
Water Reclamation Reuse Facility
Project No. E07-WASD-04

**BUDGET PROJECT AND
DESCRIPTION:**

965630 – Wastewater Treatment Plants Effluent Reuse

FUNDING SOURCE:

Future WASD Revenue Bonds 2009S
Future Bond Issue

INDEX CODES:


EW623 Plant Expansion Wastewater Fund
EW643 WASD Revenue Bonds Sold

**ASSISTANT DIRECTOR,
ENGINEERING:**

 5/14/07

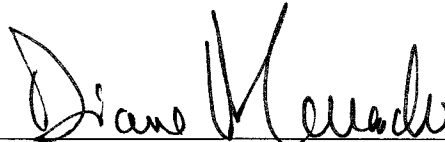
EDUARDO A. VEGA, P.E. DATE

DEPT. BUDGET OFFICER

 5/14/07

PEDRO VELAR DATE

**ASSISTANT DIRECTOR,
FINANCE**

 5/14/07

DIANE CAMACHO DATE

**DEPUTY DIRECTOR,
OPERATIONS**

 5/14/07

JOSEPH A. RUIZ, JR. DATE

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MIAMI-DADE COUNTY, FLORIDA
NOTICE TO PROFESSIONAL CONSULTANTS

MIAMI-DADE WATER AND SEWER DEPARTMENT
**DESIGN AND CONSTRUCTION MANAGEMENT SERVICES
FOR THE NORTH DISTRICT WASTEWATER TREATMENT PLANT
WATER RECLAMATION FACILITY
PROJECT NO. E07-WASD-04**

The County Manager, Miami-Dade County, pursuant to Chapter 287.055, Florida Statutes, and Chapter 2, Sections 2-8.1 (as amended Ordinance 05-105) and 2-10.4 of the County Code and Administrative Order 3-39, announces that the Miami-Dade Water and Sewer Department (MDWASD) will require professional engineering services from a qualified consultant to provide planning, design, permitting and construction management services for the implementation of a Water Reclamation Facility at the MDWASD North District Wastewater Treatment Plant approximately 6.8 million gallons per day (MGD), pending finalization of water reclamation application points. Uses of water reclamation facility effluent will include irrigation at North Miami stadium and the Biscayne Landings development adjacent to the plant, the North Campus of Florida International University, various locations within the City of North Miami Beach and possibly North Miami and for a vehicle wash station in the City of North Miami Beach. Treatment facilities are included in the MDWASD Reuse Feasibility Study and the flows have been submitted to the South Florida Water Management District as part of the Alternative Water Supply requirement with a completion schedule in December, 2010. This requirement is included in the Interim Consumptive Use Authorization and Agreement with the South Florida Water Management District executed in May 2006, under which Miami-Dade County has committed to developing alternative water supplies to meet its increased demands from sources other than the Biscayne Aquifer.

The scope of work shall include process evaluation, including possible inclusion of a part of existing facilities with any recommended upgrades, preparation of complete detailed construction drawings and specifications; conceptual design of the delivery systems including pipeline sizing, routing and storage; design of water reclamation pumping station and on-site storage, detailed cost estimates; attendance at meetings, contract interpretations and clarifications, review of claims and potential change order requests; review and processing of shop drawings, review of schedule of values and as-built drawings, assist in property acquisition; provide permitting services and bidding and construction management services, answering requests for information, start-up assistance and final inspection; utility coordination, surveying, and geotechnical work; prepare operations and maintenance manuals and provide training for operations and maintenance; provide record drawings documentation; provide transactional system integration and database development through design and construction. Design of water reclamation facility transmission lines will be by others. Project coordination services are anticipated to include, establishing a plan to implement the project, establish and track project schedule, budget and deadlines, prepare status reports and attend meetings as requested. Included also shall be public information services for coordination with residents regarding the water reclamation systems. The total estimated construction cost of the project is \$14 million.

The prime and/or subconsultants are required to have experience with the design and construction management services of least one (1) similar sized facility with the advanced treatment required for this project within the past five (5) years. The MDWASD intends to retain one qualified firm under a non-exclusive Professional Services Agreement. The term of the contract is for a four (4) year period. Maximum compensation is \$3,400,000 plus

contingency in accordance with Ordinance 00-65. No minimum amount of work or compensation will be assured to the retained consultant. The County reserves the right to re-use the work products of the retained consultant and to retain other consultants to provide the same or similar services at its sole discretion. The consultant coordinator for this project is _____ who may be contacted via e-mail at _____ or fax at _____ with copy to the Clerk of the Board.

TECHNICAL CERTIFICATION REQUIREMENTS

Prime

6.03 Water and Sanitary Sewage Treatment Plants
11.00 General Structural Engineering
17.00 Engineering Construction Management

Prime and/or Subconsultants

9.02 Geotechnical and Materials Engineering Services
12.00 General Mechanical Engineering
13.00 General Electrical Engineering
15.01 Land Surveying
16.00 General Civil Engineering

CBE Goal 20%

BREAKDOWN LIST

	<u>%</u>	<u>CBE%</u>
06.03 Water and Sanitary Sewage Treatment Plants	20%	
12.00 General Mechanical Engineering	15%	15%
13.00 General Electrical Engineering	15%	
17.00 Engineering Construction Management	15%	
11.00 General Structural Engineering	15%	
16.00 General Civil Engineering	10%	5%
09.02 Geotechnical and Materials Engineering Services	5%	
15.01 Land Surveying	5%	
TOTAL	100%	20%

STRATEGIC AREA: Neighborhood and Unincorporated Area Municipal Services
DEPARTMENT: Water and Sewer

***** FUNDED PROJECTS *****
(dollars in thousands)

WASTEWATER TREATMENT PLANTS EFFLUENT REUSE

PROJECT # 965630

DESCRIPTION: Begin planning and construction of facilities for an effluent reuse system at wastewater treatment plants

LOCATION: Systemwide
Systemwide

DISTRICT LOCATED: Systemwide
DISTRICT(s) SERVED: Systemwide

ESTIMATED ANNUAL OPERATING IMPACT: Minimal

REVENUE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Wastewater Connection Charges	80	0	0	0	0	0	0	0	80
WASD Revenue Bonds Sold	22,934	0	0	0	0	0	0	0	22,934
TOTAL REVENUE:	23,014	0	0	0	0	0	0	0	23,014
EXPENDITURE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Planning and Design	26	572	1,496	0	0	0	0	0	2,094
Construction	265	5,716	14,939	0	0	0	0	0	20,920
TOTAL EXPENDITURES:	291	6,288	16,435	0	0	0	0	0	23,014

WASTEWATER TREATMENT PLANTS MISCELLANEOUS UPGRADES

PROJECT # 9652061

DESCRIPTION: Upgrade wastewater treatment plants to meet regulatory requirements

LOCATION: Wastewater Treatment Plants
Systemwide

DISTRICT LOCATED: Systemwide
DISTRICT(s) SERVED: Systemwide

ESTIMATED ANNUAL OPERATING IMPACT: Minimal

REVENUE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Wastewater Connection Charges	462	0	0	0	0	0	0	637	1,099
WASD Revenue Bonds Sold	1,353	0	0	0	0	0	0	0	1,353
Future WASD Revenue Bonds	0	0	0	0	0	0	13,074	0	13,074
TOTAL REVENUE:	1,815	0	0	0	0	0	13,074	637	15,526
EXPENDITURE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Planning and Design	15	14	136	0	0	0	242	1,005	1,412
Construction	150	136	1,364	0	0	0	2,422	10,042	14,114
TOTAL EXPENDITURES:	165	150	1,500	0	0	0	2,664	11,047	15,526

BUDGET PROJECT 965630

Project Title: 965630-WASTEWATER TREATMENT PLANTS EFFLUENT REUSE

Project Desc: Begin planning and construction of facilities for an effluent reuse system at wastewater treatment plants

Project \$\$	Start:	End:	Prior:	06-07:	07-08:	08-09:	09-10:	Total:
(\$\$ in 000's)	10/1/2003	9/30/2007	291	6,288	16,435	0	0	23,014

Project Type: Capital

CDPWeb Project Milestones (\$ IN 000'S)

Milestone:	Start:	End:	Prior:	06-07:	07-08:	08-09:	09-10:	Total:
Planning/Design	N/A	N/A	26	572	1,496	0	0	2,094
Construction	N/A	N/A	265	5,716	14,939	0	0	20,920

CDPWeb Project Revenue (\$ IN 000'S)

Revenue:	Start:	End:	Prior:	06-07:	07-08:	08-09:	09-10:	Total:
Wastewater Connection	N/A	N/A	80	0	0	0	0	80

EXIT

Current Contracts for Project 965630

Dept	ContractNo	Contract Name	RTA Budget Allocation	Award Budget Allocation	CIIS Award
WS	E07-WASD-04	Design and Construction Manage	\$3,400,000.00	\$0.00	\$0.00

There are no Sites for Project 965630

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Dept. of Business Development
Project Worksheet

Project/Contract Title: DESIGN AND CONSTRUCTION MANAGEMENT SERVICES FOR THE
NORTH DISTRICT WASTEWATER TREATMENT PLANT WASTEWATER
REUSE FACILITY (SIC 871)

RC Date: 04/11/2007
1-09

Project/Contract No: E07-WASD-04

Funding Source:

Item No:

Department: WATER & SEWER DEPARTMENT

VARIOUS

Estimated Cost of Project/Bid: \$3,400,000.00

Resubmittal Date(s):

Description of Project/Bid: TO ESTABLISH A CONTRACT TO EMPLOY AN ENGINEERING FIRM TO PROVIDE DESIGN AND CONSTRUCTION
MANAGEMENT SERVICES FOR THE CONSTRUCTION OF THE NORTH DISTRICT WASTEWATER TREATMENT PLANT
WASTEWATER RESUSE FACILITY. THE SCOPE OF WORK SHALL ALSO INCLUDE PROCESS EVALUATION,
PREPARATION OF COMPLETE DETAILED CONSTRUCTION DRAWINGS AND SPECIFICATIONS, AND CONCEPTUAL
DESIGN OF THE DELIVERY SYSTEMS (AMONGST OTHER FUNCTIONS).

Contract Measures Recommendation

<u>Measure</u>	<u>Program</u>	<u>Goal Percent</u>
Goal	CBE	20.00%

Reasons for Recommendation

This project meets all the criteria set forth in A.O. 3-32, Section V.

Funding sources: Future WASD Revenue Bonds and Plant Expansion Wastewater Fund

SIC 871 - Architectural and Engineering Services

Analysis for Recommendation of a Goal

<u>Subtrade</u>	<u>Cat.</u>	<u>Estimated Value</u>	<u>% of Items to Base Bid</u>	<u>Availability</u>
GENERAL MECHANICAL ENGINEERING	CBE	\$510,000.00	15.00%	24
GENERAL CIVIL ENGINEERING	CBE	\$170,000.00	5.00%	56
Total		\$680,000.00	20.00%	

Living Wages: YES ☐ NO ☒

Responsible Wages: YES ☐ NO ☒

Ordinance 90-143 is applicable to all construction projects over \$100,000 that do not utilize Federal Funds

REVIEW COMMITTEE RECOMMENDATION

Tier 1 Set Aside _____

Set Aside _____ Level 1 _____ Level 2 _____ Level 3 _____

Trade Set Aside (MCC) _____ Goal 20% Bid Preference _____

No Measure _____ Deferred _____ Selection Factor _____


Chairperson, Review Committee

4.11.07
Date

County Manager

Date